**Plate Tectonics**

**Choose the best response. Write the letter of that choice in the space provided.**

1. Support for Wegener’s hypothesis of continental drift includes evidence of changes in

**a.** climatic patterns. **b.** Panthalassa. **c.** terranes. **d.** subduction.

1. New ocean floor is constantly being produced through the process known as

**a.** subduction. **b.** continental drift. **c.** seafloor spreading. **d.** terranes.

**3.** An underwater mountain chain formed where new crust is created by seafloor spreading

is called a

**a.** divergent boundary. **b.** subduction zone.

**c.** mid-ocean ridge. **d.** convergent boundary.

1. The term *tectonics* comes from a Greek word meaning

**a.** “movement.” **b.** “plate.” **c.** “continent.” **d.** “construction.”

**5.** The layer of mantle with plastic rock that underlies the plates is called the

**a.** lithosphere. **b.** asthenosphere. **c.** oceanic crust. **d.** terrane.

**6.** Two plates moving away from each other form a

**a.** transform boundary. **b.** convergent boundary.

**c.** fracture. **d.** divergent boundary.

**7.** The collision of one lithospheric plate with another forms a

**a.** convergent boundary. **b.** transform boundary.

**c.** rift valley. **d.** divergent boundary.

**M O D E R N E A R T H S C I E N C E**

**8.** The region along lithospheric plate boundaries where one plate is moved beneath another

is called a

**a.** rift valley. **b.** transform boundary.

**c.** subduction zone. **d.** convergent boundary.

**9.** Two plates grind past each other at a

**a.** transform boundary. **b.** convergent boundary.

**c.** subduction zone. **d.** divergent boundary.

**10.** Convection occurs because heated material becomes

**a.** less dense and rises. **b.** more dense and rises.

**c.** more dense and sinks. **d.** less dense and sinks.

*Match the items in Column I with the terms or phrases in Column II. Write the letter of the correct term or phrase in*

*the blank at the left.*

**Column I Column II**

**\_\_\_\_\_\_\_1.** Reptile fossil found in South America and Africa **a.** Pangaea

**\_\_\_\_\_\_\_2.** Fern fossil found in Africa, Australia, India, South America, **b.** Appalachians

and Antarctica **c.** continental drift

**\_\_\_\_\_\_\_3.** Clues that support continental drift **d.** glacial deposits

**\_\_\_\_\_\_\_4.** Mountains similar to those in Greenland and western **e.** *Glossopteris*

Europe **f.** *Mesosaurus*

**\_\_\_\_\_\_\_5.** Wegener’s name for one large landmass **g.** rock, fossil, and climate

**\_\_\_\_\_\_\_6.** Movement of continents **h**. Plate boundary

**\_\_\_\_\_\_\_7.** Evidence that Africa was once cold **i.** fault

**\_\_\_\_\_\_\_8.**Deep valley that forms when 2 plates pull apart **j**. rift valley

**\_\_\_\_\_\_\_9.** Line where the edges of the earth meet

**\_\_\_\_\_\_10.** Break in the earth’s crust where rocks have

slipped past each other

***Fill in the blanks***

1. Wegener named his super continent\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Wegener’s idea that the continents slowly moved over the Earth’s suface became known as

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. The process by which the ocean floor sinks into the mantle is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. The process that continually adds new material to the ocean floor is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Most spreading boundaries occur along\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

***Read each question or statement and answer it in the space provided***

1. Explain the role of technology in the progression from the hypothesis of continental drift to the theory of plate tectonics.

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1. Explain the driving force behind plate tectonics. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Explain the difference between plate tectonics and continental drift.

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*Draw a concept map for plate boundaries which includes:*

Types of plate boundaries

Where they occur

What they form

Give an example of each formation